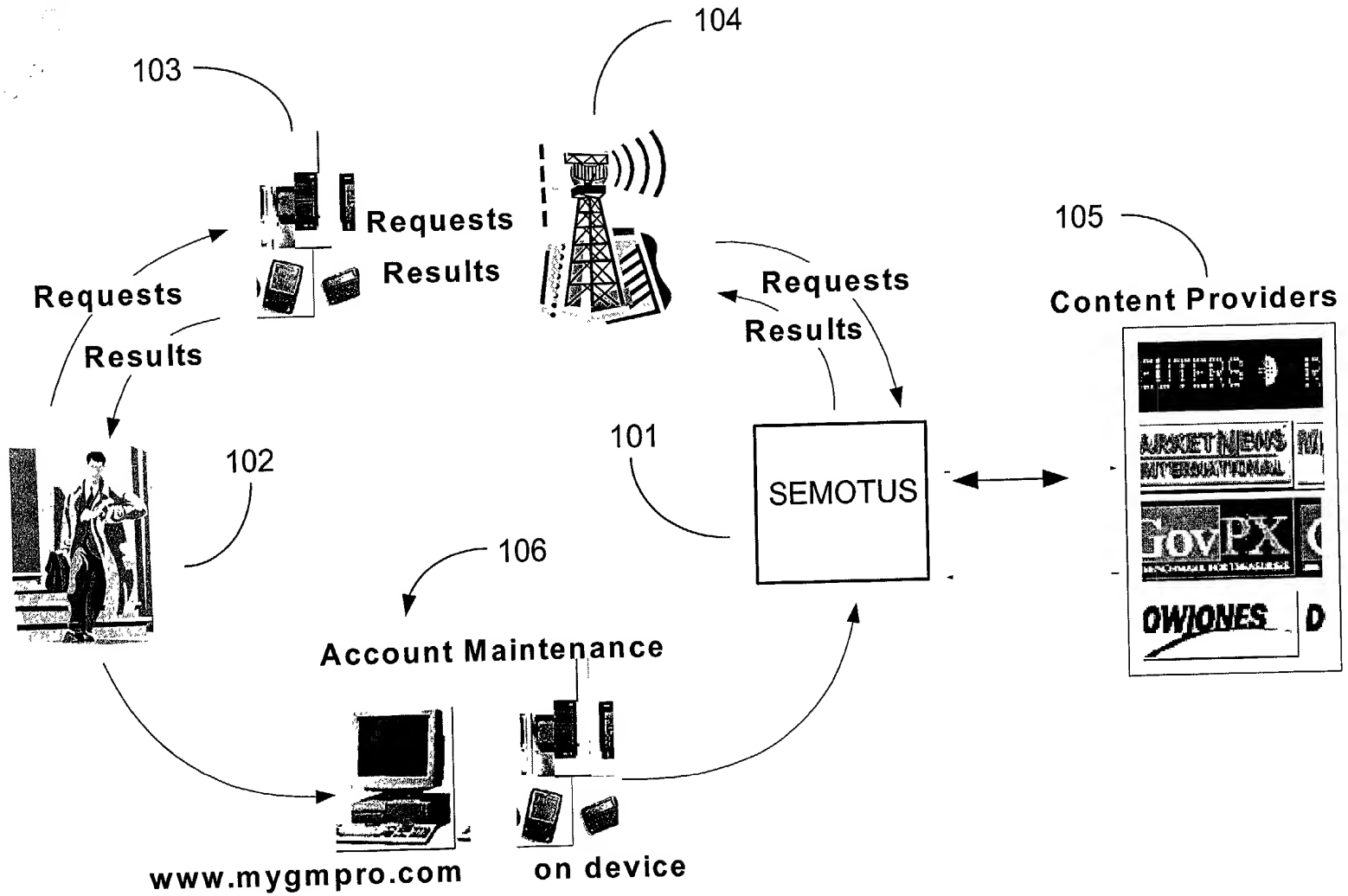
103
104
105
Content Providers
Requests
Results
Requests
Results
Requests
Results
101
SEMOTUS
102
106
Account Maintenance
www.mygmpro.com
on device

Fig. 1

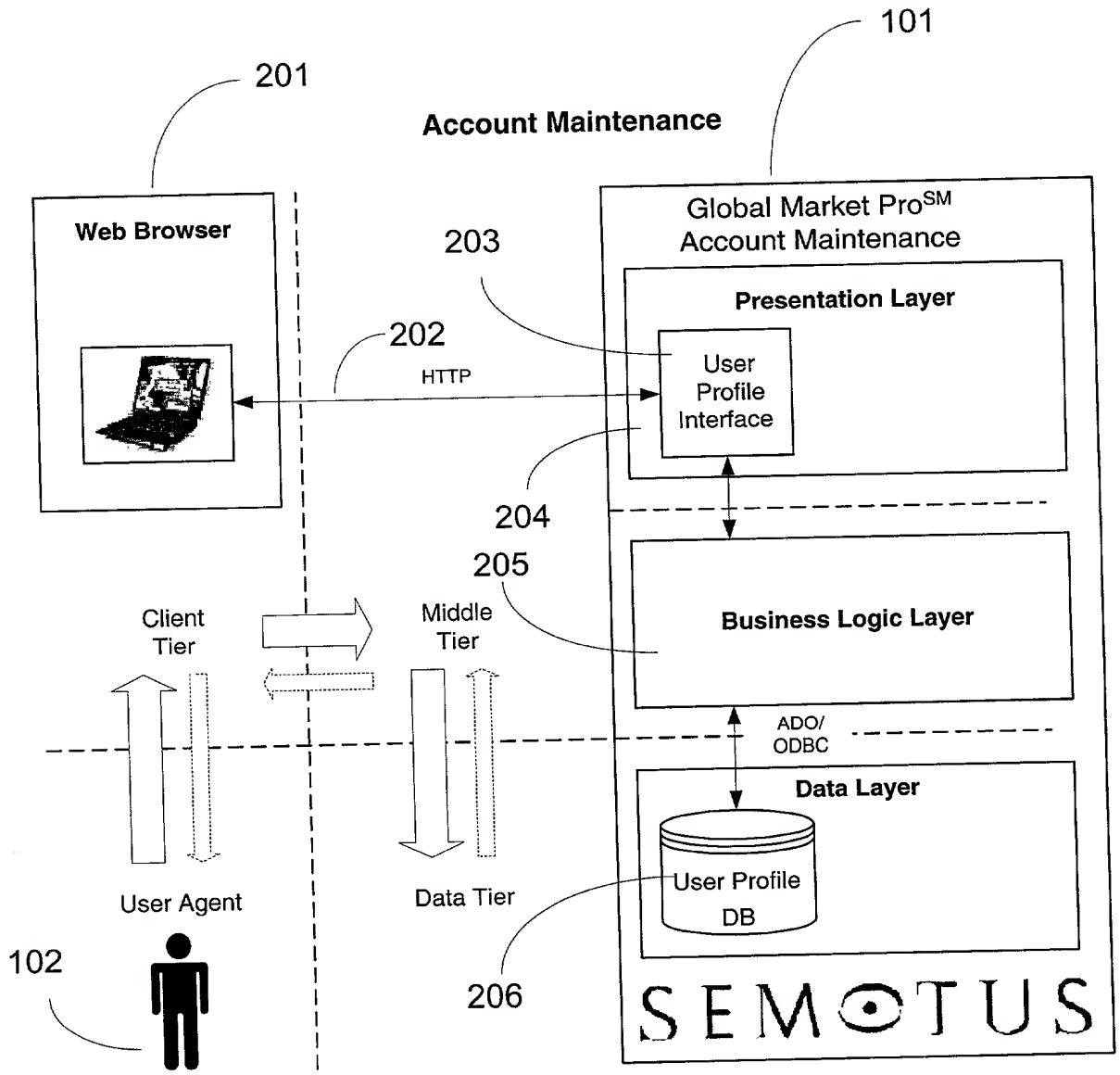
101
201
Account Maintenance
Web Browser
Global Market Pro℠
Account Maintenance
203
Presentation Layer
202
HTTP
User
Profile
Interface
204
205
Business Logic Layer
Client
Tier
Middle
Tier
ADO/
ODBC
Data Layer
User Profile
DB
User Agent
Data Tier
102
206
SEMOTUS

Fig. 2a

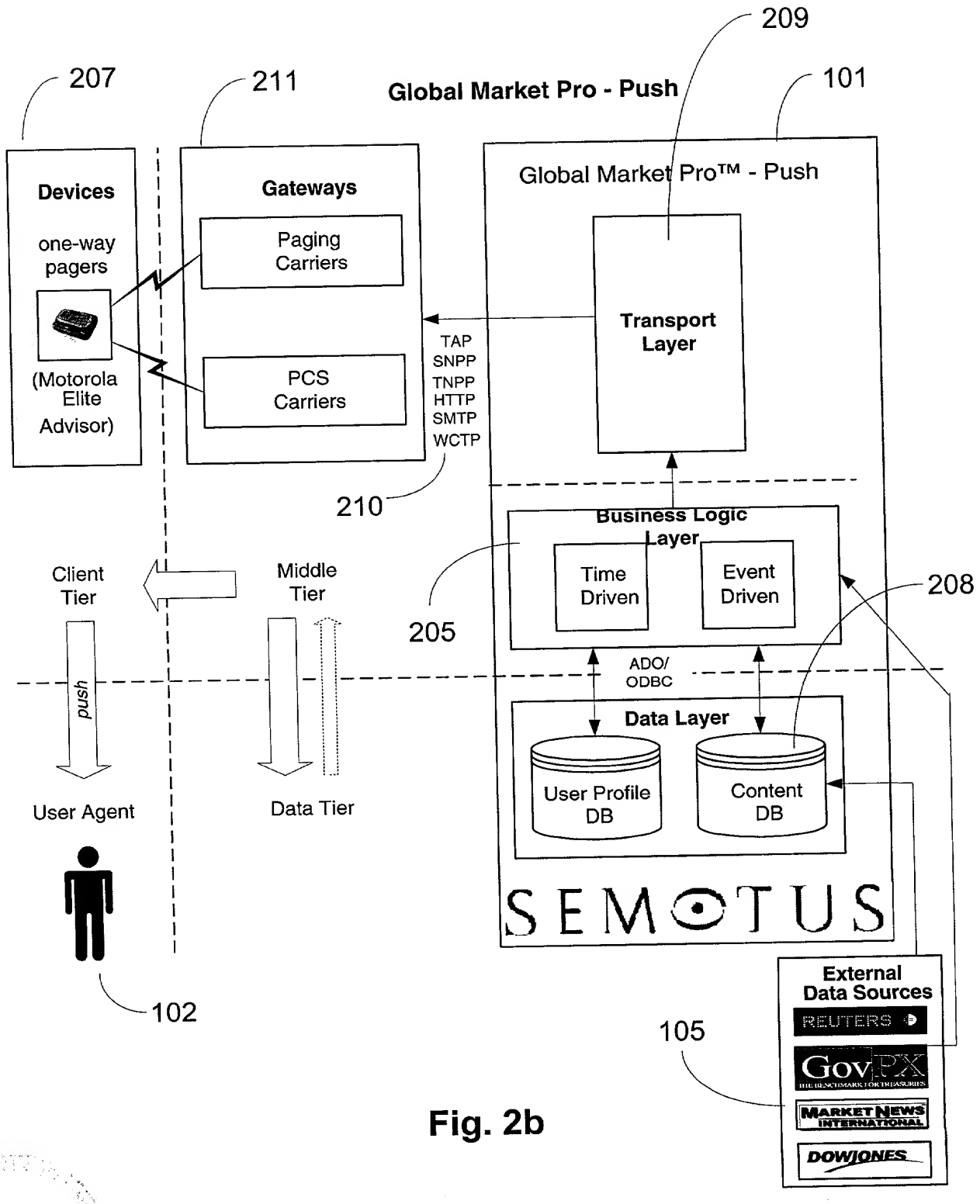
209
207
211
Global Market Pro - Push
101
Devices
one-way pagers
(Motorola Elite Advisor)
Gateways
Paging Carriers
PCS Carriers
TAP
SNPP
TNPP
HTTP
SMTP
WCTP
210
Global Market Pro™ - Push
Transport Layer
Business Logic Layer
Time Driven
Event Driven
205
208
Client Tier
Middle Tier
ADO/ ODBC
push
Data Layer
User Profile DB
Content DB
User Agent
Data Tier
SEMOTUS
External Data Sources
REUTERS
GovPX
MARKET NEWS INTERNATIONAL
DOWJONES
102
105

Fig. 2b

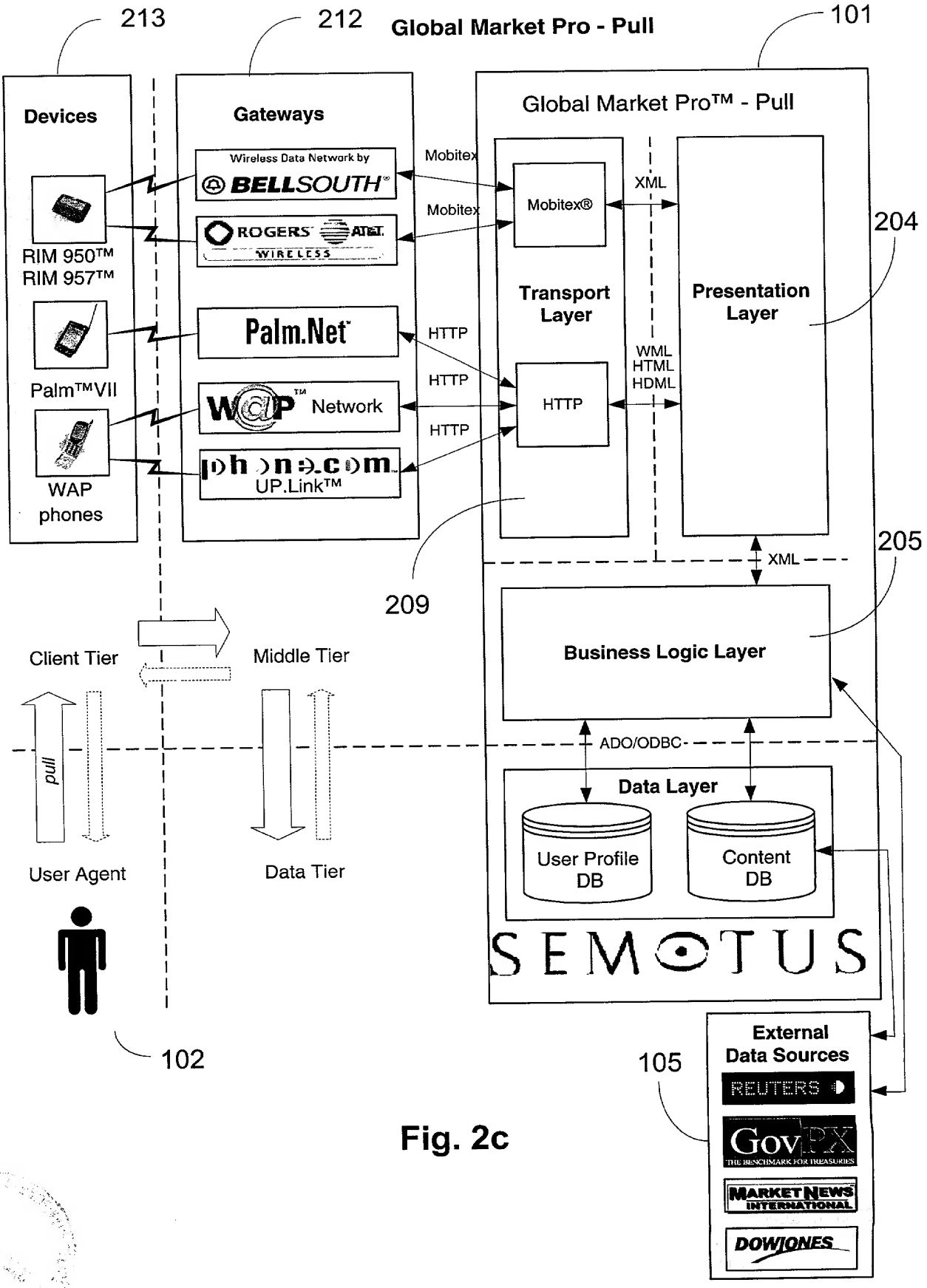
213
212
Global Market Pro - Pull
101
Devices
Gateways
Global Market Pro™ - Pull
Wireless Data Network by
BELLSOUTH
ROGERS AT&T WIRELESS
Mobitex
Mobitex
Mobitex®
XML
204
RIM 950™
RIM 957™
Palm™VII
WAP phones
Palm.Net
WAP Network
phone.com
UP.Link™
HTTP
HTTP
HTTP
Transport Layer
Presentation Layer
WML
HTML
HDML
209
205
XML
Business Logic Layer
Client Tier
Middle Tier
pull
ADO/ODBC
Data Layer
User Profile DB
Content DB
User Agent
Data Tier
SEMOTUS
102
105
External Data Sources
REUTERS
GovPX
THE BENCHMARK FOR TREASURIES
MARKET NEWS INTERNATIONAL
DOWJONES

Fig. 2c

T0500T "EE18860

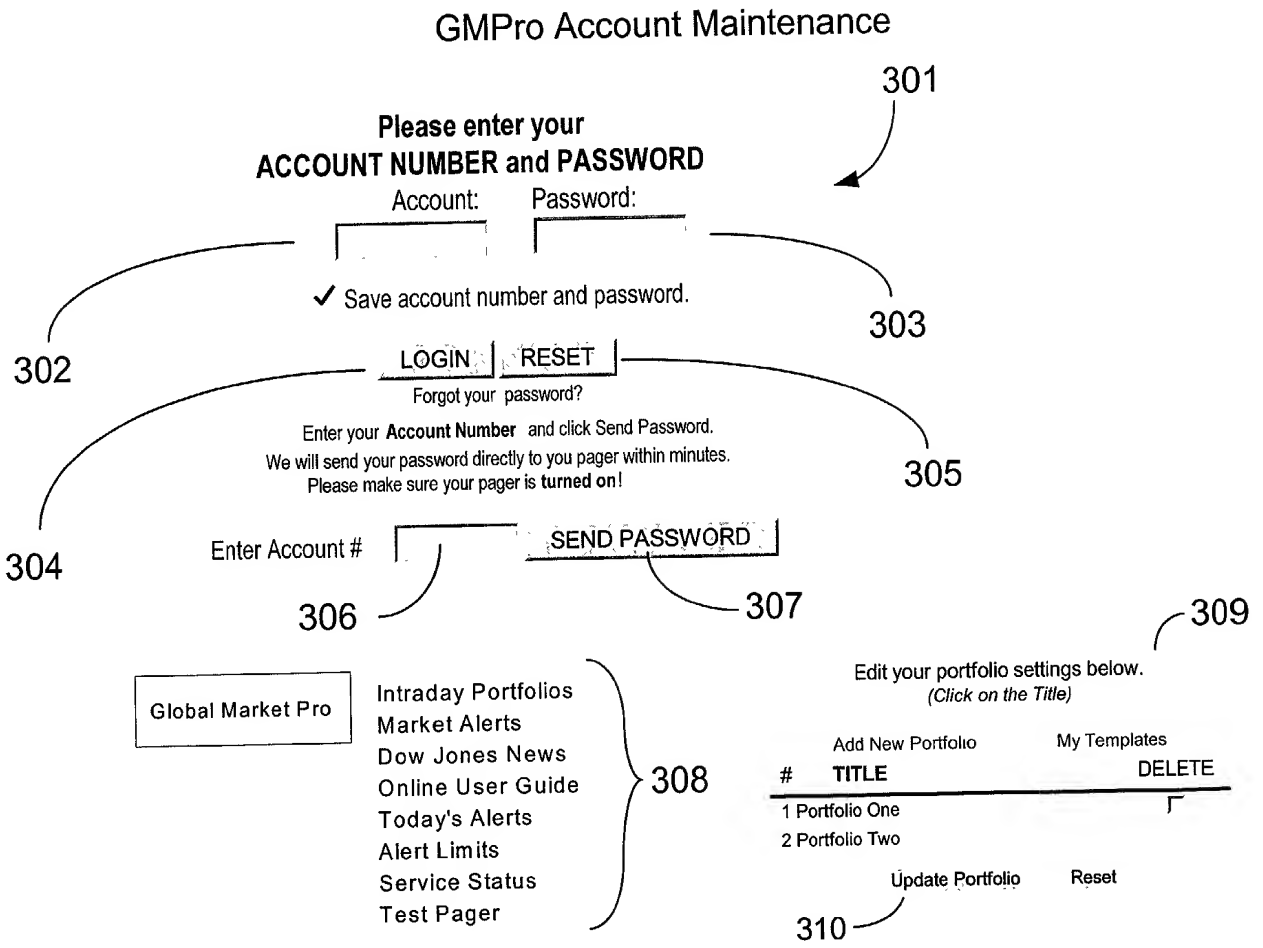


**Fig. 3a**

TOSOOT TEET8860

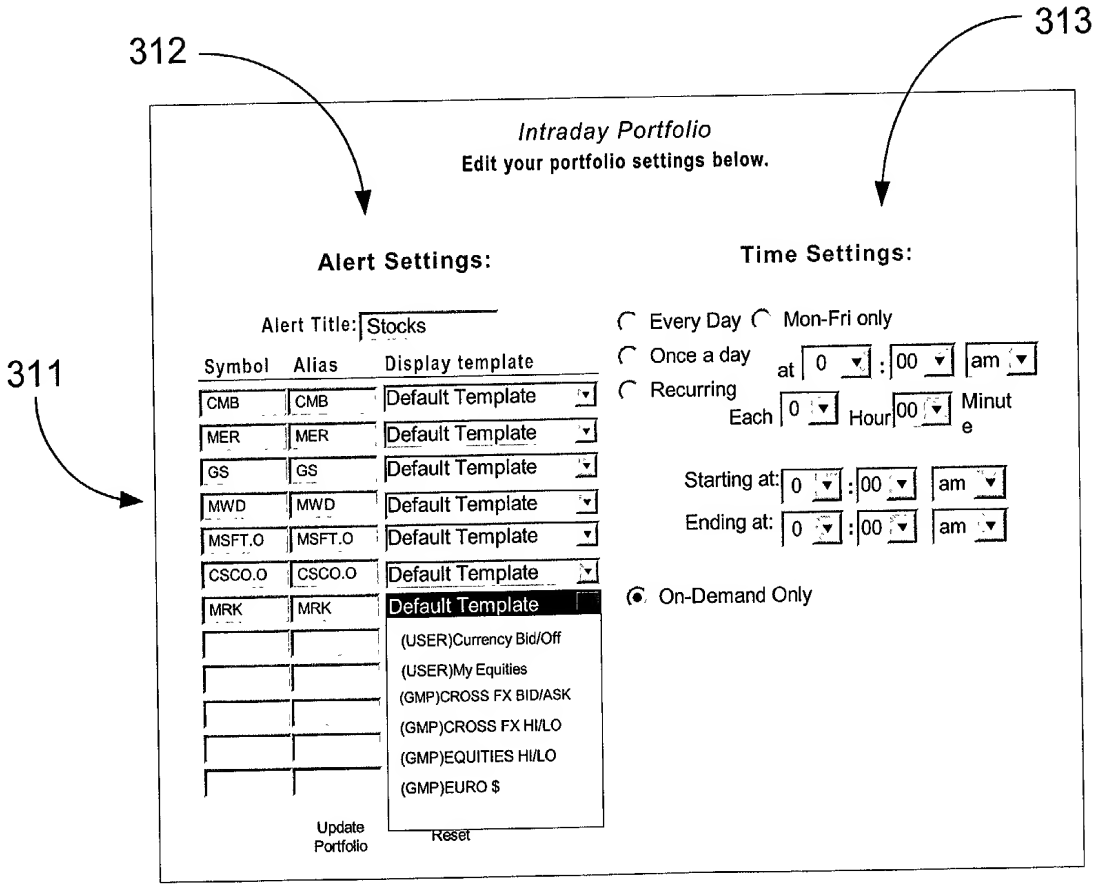


Fig. 3b

Patent Application Publication

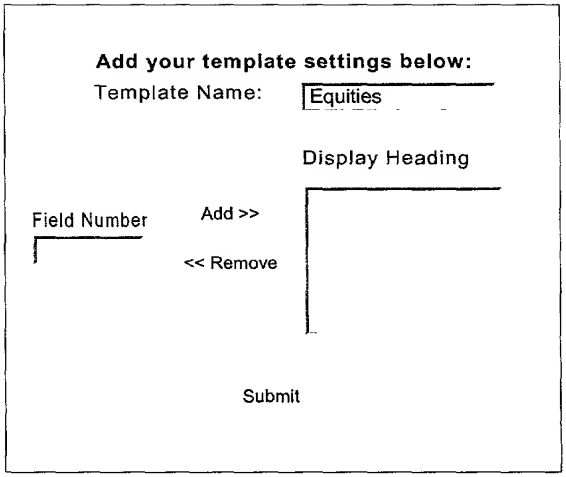


Fig. 3c

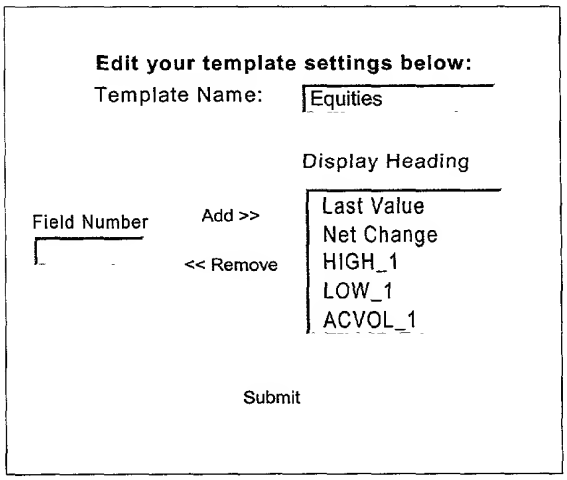


Fig. 3d

Default Display Templates

401

402

403

| Type of RICs (Example RICs) | Fields Displayed on the Default Template |
|---|---|
| NASDAQ Equities (MSFT.O) | NASDAQ Market Indicator, Tick Indicator, Last, Net Change, Bid, Ask, High, Low, Accumulated Volume |
| North American Equities (IBM.N) | Tick Indicator, Last, Net Change, Bid, Ask, High, Low, Accumulated Volume |
| International Monetary Market Futures (EDH1) | Contract Name, Bid Tick, Bid, Offered, High, Low, Settle (displayed in 32nds) |
| West Texas Crude & Oils (WTC) | Buy, Sell, Terms (of Delivery), Delivery Date |
| Spot Energy (AL-ALLOY) | Bid Tick, Bid, Offered |
| LIBOR Rates (LIUSD3MD=) | Instrument Name, Tick Indicator, Latest Rate |
| London Int. Futures & European Futures (FGBLH1) | Contract Name, Tick Indicator, Latest, Net Change, High, Low, Settle |

**Fig. 4a**

Pre-Defined
Display Templates

| Template Name | Instrument Type Use | Fields Displayed |
|---|---|---|
| GMPro1 | Commodities | BID, ASK |
| GMPro2 | Commodities (no text header) | BID TICK, BID, ASK |
| GMPro3 | Currencies | BID, ASK, HIGH, LOW |
| GMPro4 | Currencies | BID, ASK |
| GMPro5 | Currencies | HIGH, LOW |
| GMPro6 | Currencies (no text header) | BID TICK, BID, ASK |
| GMPro7 | Equities | TICK INDICATOR, LAST, NET CHANGE |
| GMPro8 | Futures (International) (no text header) | CONTRACT NAME, TICK INDICATOR, LAST, NET CHANGE, HIGH, LOW |
| GMPro9 | Futures (North American in 32nds) (no text header) | CONTRACT NAME, BID TICK. BID, ASK, HIGH, LOW |

**Fig. 4b**

Exhibit 1003, p. 0056

Pre-Defined
Display Templates

| Template Name | Instrument Type Use | Fields Displayed |
|---|---|---|
| GMPro10 | Futures (North American) (no text header) | CONTRACT NAME, BID TICK, BID, ASK, HIGH, LOW |
| GMPro11 | GovPX | BID TICK, BID, ASK, YIELD, NET YIELD |
| GMPro12 | GovPX (with Net Yield) (no text header) | BID TICK, BID, ASK, YIELD, NET YIELD |
| GMPro13 | GovPX (w/o Net Yield) (no text header) | BID TICK, BID, ASK, YIELD |
| GMPro14 | Indices (no text header) | TICK INDICATOR, LAST, NET CHANGE |
| GMPro15 | IRS (no text header) | BID TICK, BID, OFFERED |
| GMPro16 | Rates (International) (no text header) | TICK INDICATOR, LATEST RATES, CONTRIBUTOR |
| GMPro17 | Rates (USA) (no text header) | CONTRACT NAME, TICK, LATEST RATE |
| GMPro18 | Treasury | BID, OFFERED, YIELD |

**Fig. 4c**

Patent Pending

Custom Display Templates

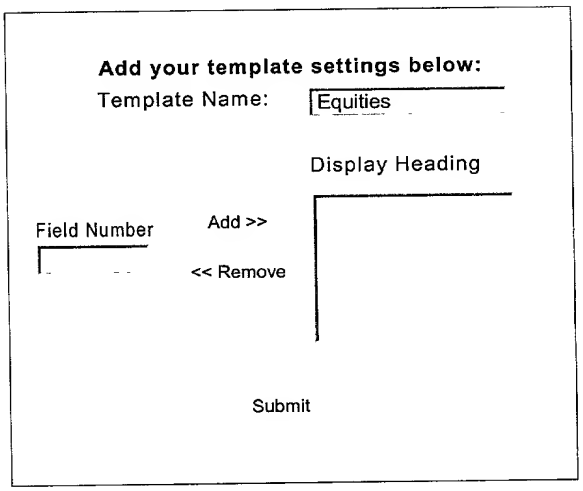


Fig. 4d

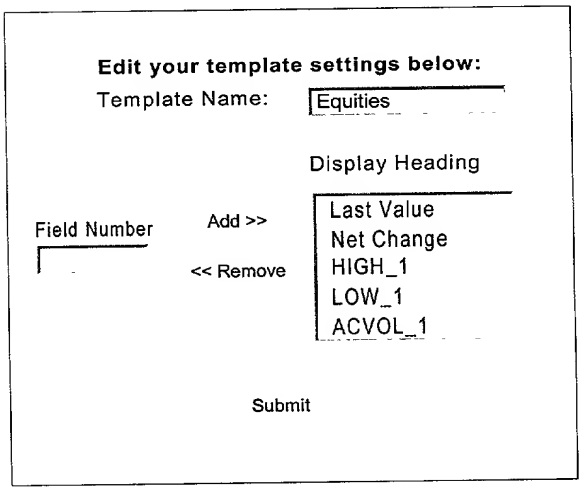


Fig. 4e

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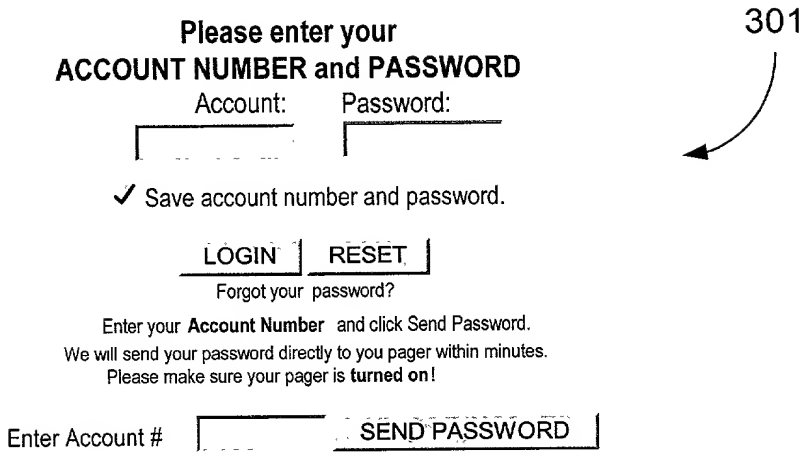
Internet Account Maintenance



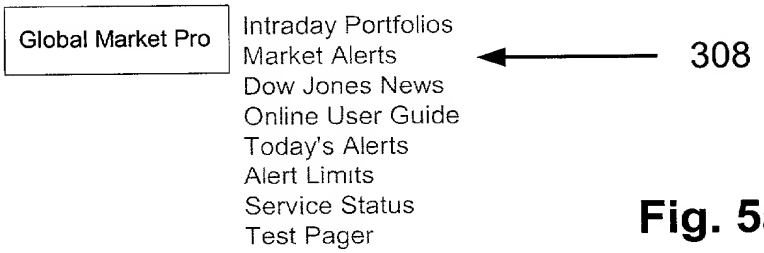




Fig. 5a

Market Alerts

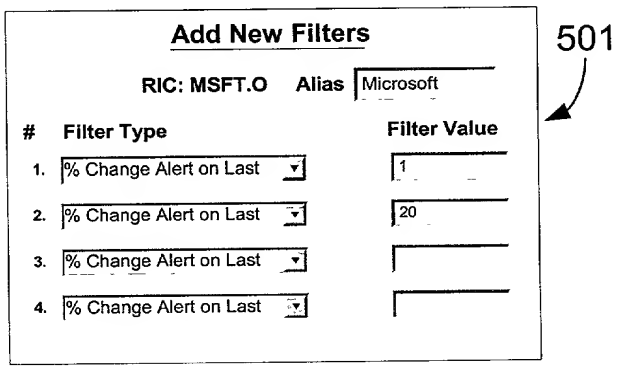



Fig. 5b

Sheet 5 of 6

PRINTED: 12/5/2006

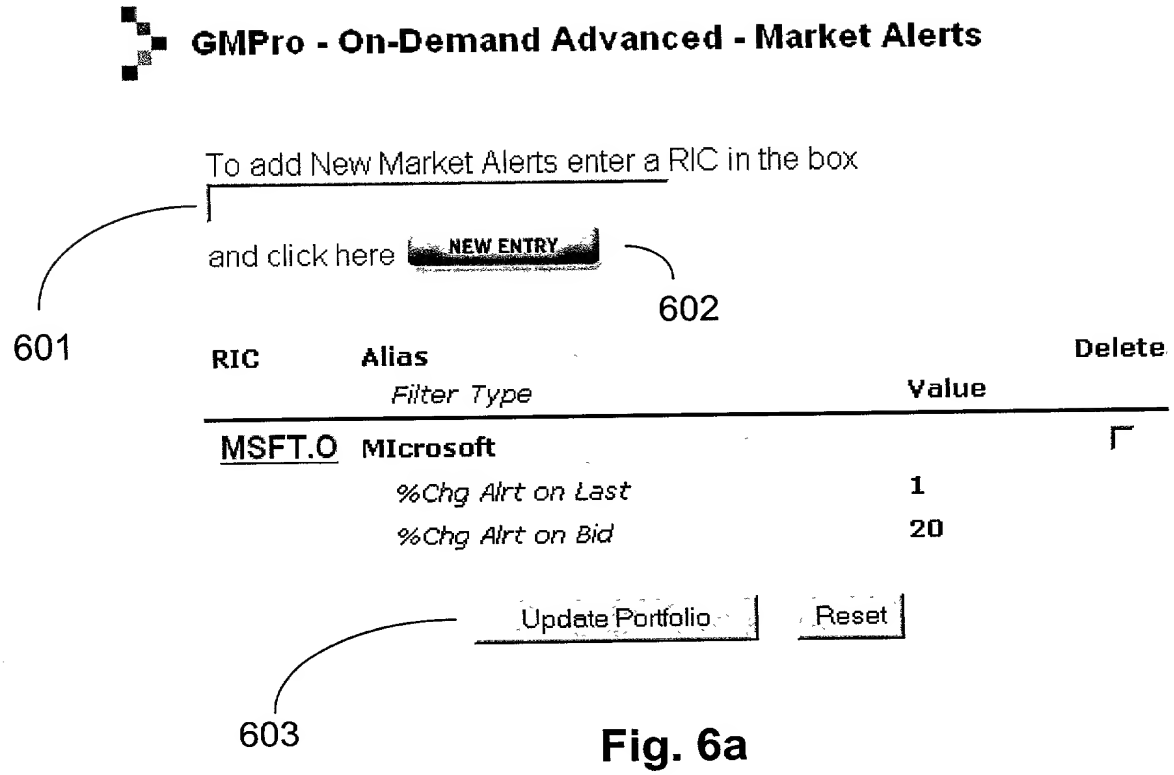



Fig. 6a

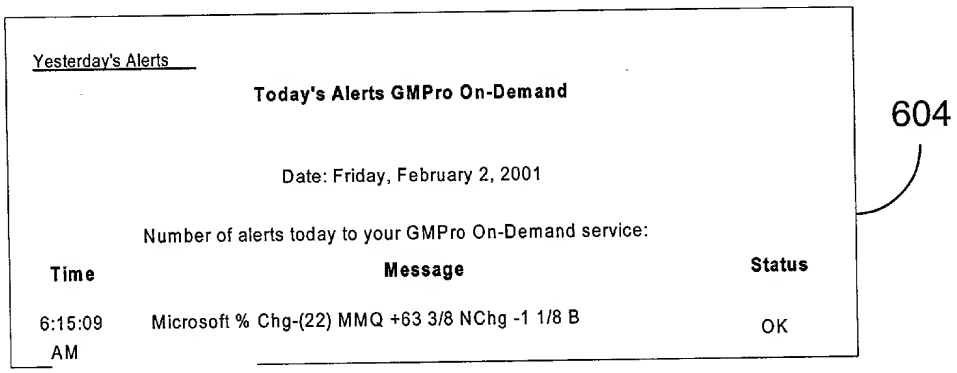



Fig. 6b

Market Alert - Filter Types

| Financial Instrument | RIC Example | Market Alert Filter Types |
|---|---|---|
| Equities | MSFT.O | % Change Alert on Bid<br>% Change Alert on Last<br>Change Alert on Bid<br>Change Alert on Last<br>High Alert on Bid<br>High Alert on Last<br>High Alert on Trade Volume<br>Low Alert on Bid<br>Low Alert on Last |
| Futures | EDZ1 | % Change Alert on Last<br>% Change Alert on Yield<br>Change Alert on Last<br>Change Alert on Yield<br>High Alert on Last<br>High Alert on Yield<br>Low Alert on Last<br>Low Alert on Yield |
| Treasuries | US30YT=PX | % Change Alert on Last<br>% Change Alert on Yield<br>% Change Alert on BTYSPD<br>Change Alert on Last<br>Change Alert on Yield<br>Change Alert on BTYSPD<br>High Alert on Last<br>High Alert on Yield<br>High Alert on BTYSPD<br>Low Alert on Last<br>Low Alert on Yield<br>Low Alert on BTYSPD<br>Change Alert on % 1 Day Chg |

**Fig. 7a**

Patent Pending

Market Alert - Filter Types (continued)

| Financial Instrument | RIC Example | Market Alert Filter Types |
|---|---|---|
| Indices | .DJI | % Change Alert on Last<br>Change Alert on Last<br>High Alert on Last<br>Low Alert on Last<br>Volume Alert on Volume |
| Interest Rate SWAPS | USD10YTS=ICAP | % Change Alert on Last<br>Change Alert on Last<br>High Alert on Last<br>Low Alert on Last |
| International Futures | FGBLU1 | % Change Alert on Last<br>Change Alert on Last<br>High Alert on Last<br>Low Alert on Last<br>Open |
| Rates (such as LIBOR) | LIUSD3MD= | % Change Alert on Last<br>Change Alert on Last<br>High Alert on Last<br>Low Alert on Last |
| Spot Rates (Currencies & Commodities) | JPY= | % Change Alert on Bid<br>Change Alert on Bid<br>High Alert on Bid<br>Low Alert on Bid |

**Fig. 7b**

EXHIBIT PAGE 95

801

| Alert Type | Alert Message Identifier |
|---|---|
| Change | Chg. |
| Close | C |
| Volume | Vol. |
| High | H |
| Low | L |
| Open | O |
| Percentage Change | %Chg |

Alert Message Identifiers
One-Way Pager

**Fig. 8**

TOSOOT "FEET8860

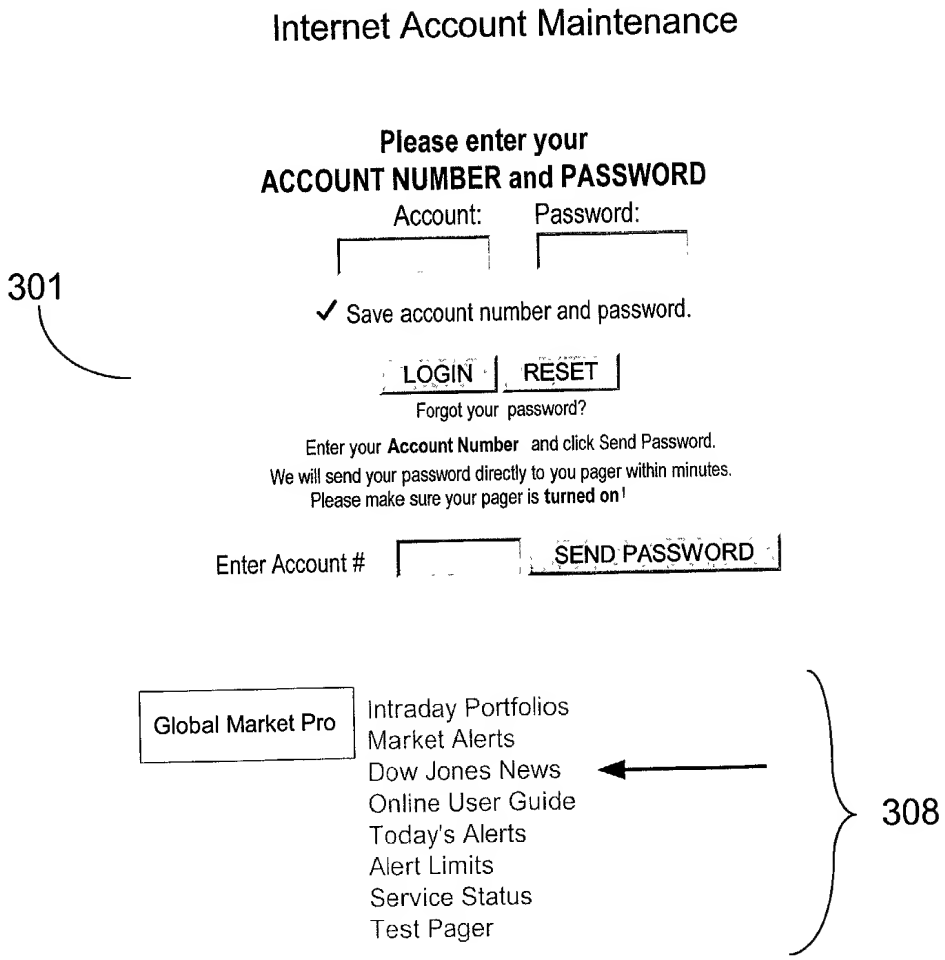



**Fig. 9a**

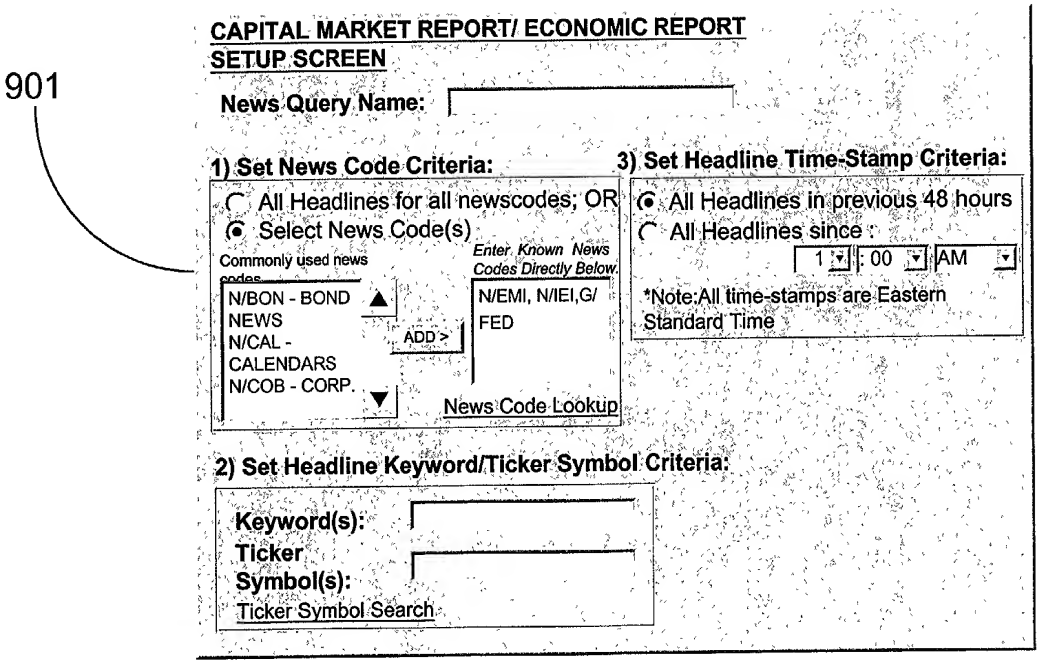

901
CAPITAL MARKET REPORT/ ECONOMIC REPORT SETUP SCREEN
News Query Name:
1) Set News Code Criteria:
All Headlines for all newscodes; OR
Select News Code(s)
Commonly used news codes
N/BON - BOND NEWS
N/CAL - CALENDARS
N/COB - CORP.
ADD >
Enter Known News Codes Directly Below
N/EMI, N/IEI,G/ FED
News Code Lookup
3) Set Headline Time-Stamp Criteria:
All Headlines in previous 48 hours
All Headlines since :
1 : 00 AM
*Note:All time-stamps are Eastern Standard Time
2) Set Headline Keyword/Ticker Symbol Criteria:
Keyword(s):
Ticker Symbol(s):
Ticker Symbol Search

Fig. 9b

## GMPro - On-Demand Advanced - Dow Jones News

Market Talk Setup Screen

Request Name:

1) Set Headline Keyword/Ticker Symbol Criteria: (Please separate the keywords and symbols with comma or space.)

Keyword(s):

Ticker Symbol(s):

Ticker Symbol Search

2) Set Headline Time-Stamp Criteria:

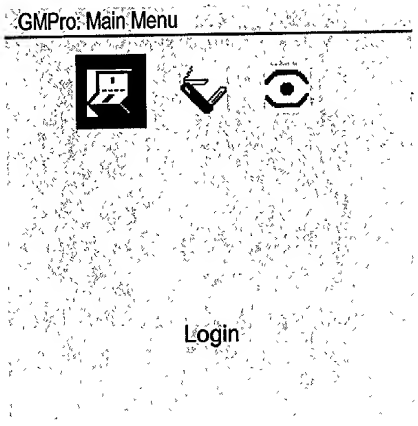
- (•) All Headlines in previous 48 hours
- ( ) All Headlines since: 1 : 00 AM

Submit

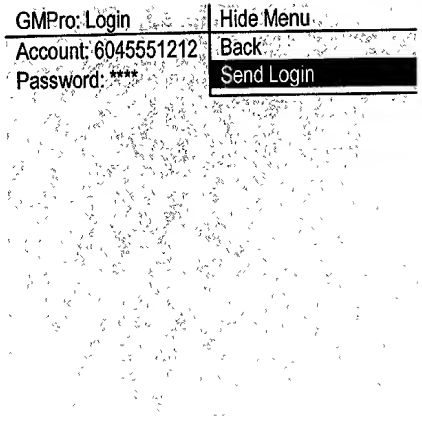
Fig. 9c

GMPro 2.0 - RIM 957 Screen Flow

(a)

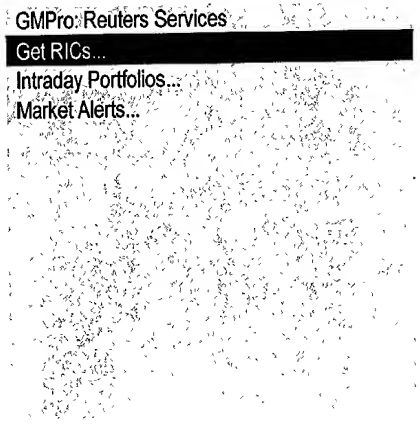



(b)




(c)

(d)

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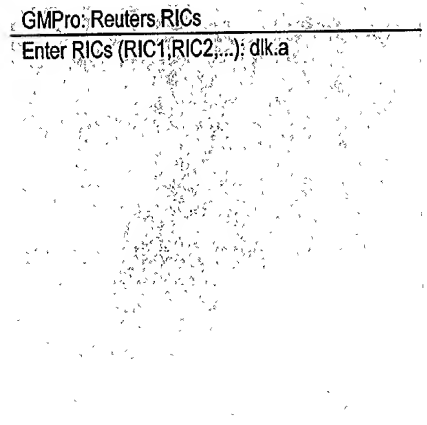
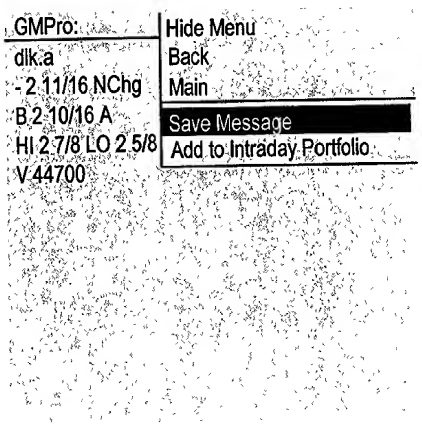



(f)

**Fig. 10a**

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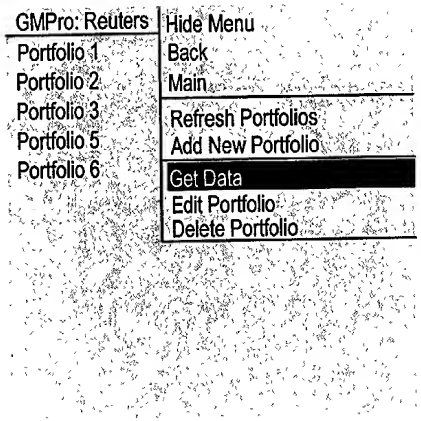


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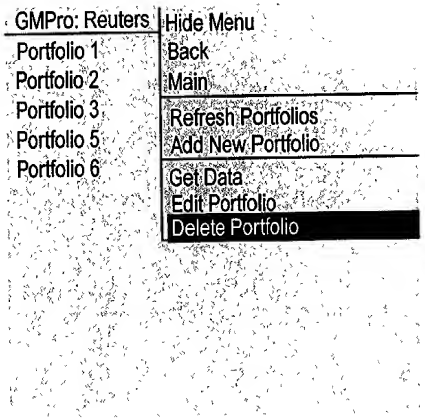


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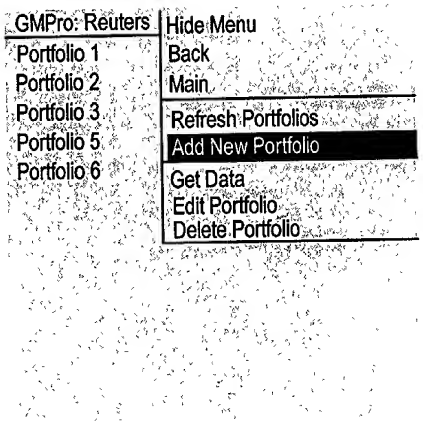


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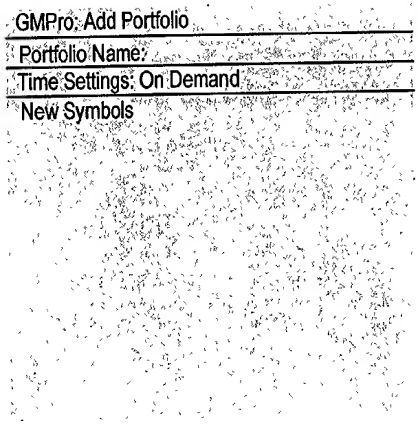


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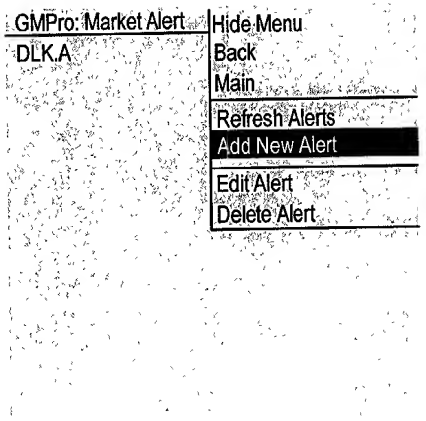
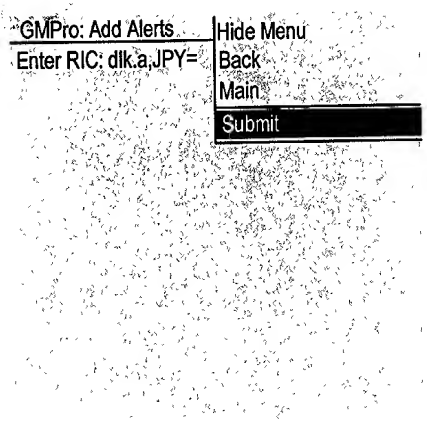



(l)

**Fig. 10b**

TOSOOT" TEETBB60

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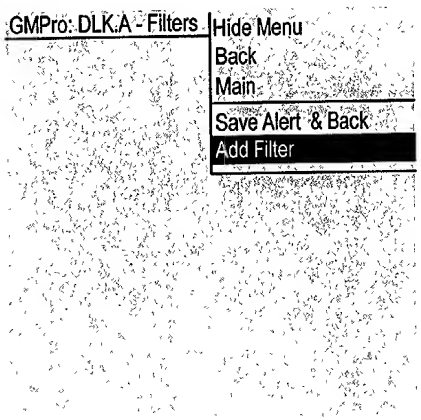


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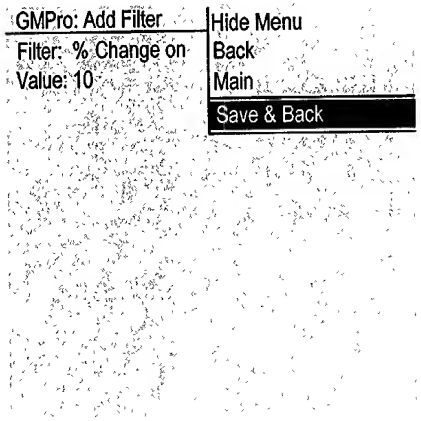


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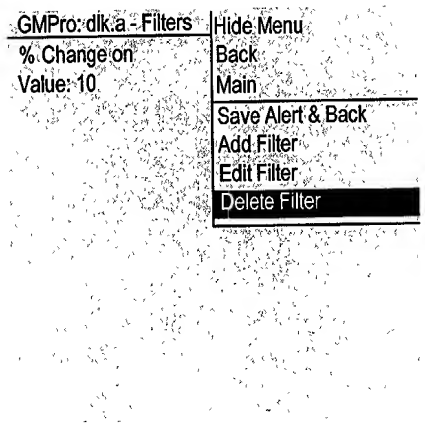


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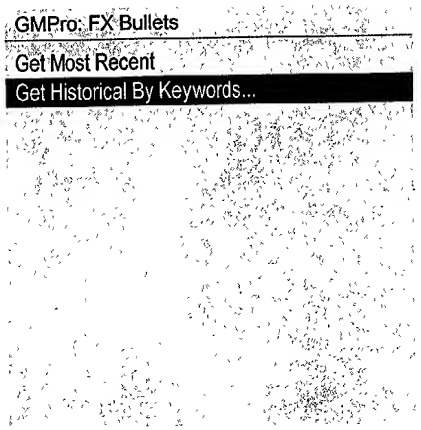


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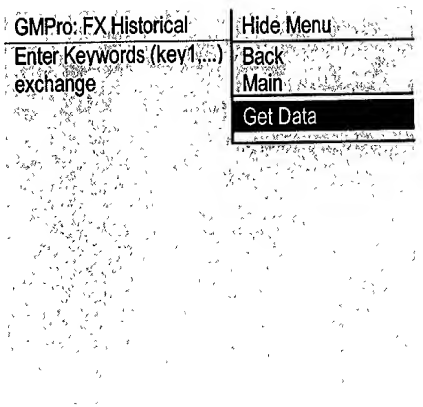


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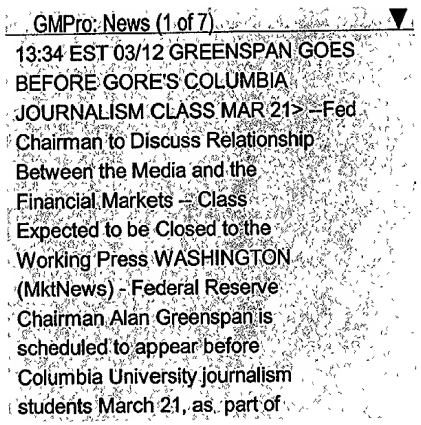
**Fig. 10c**

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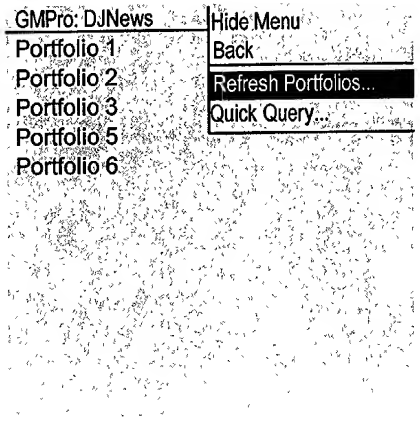


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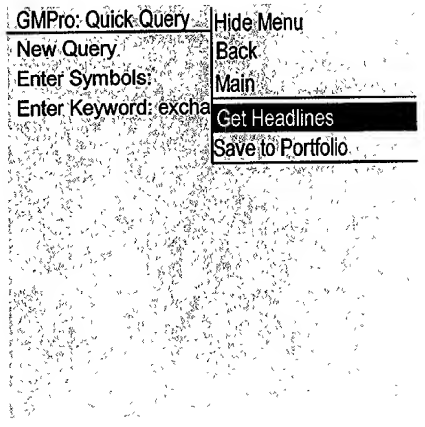


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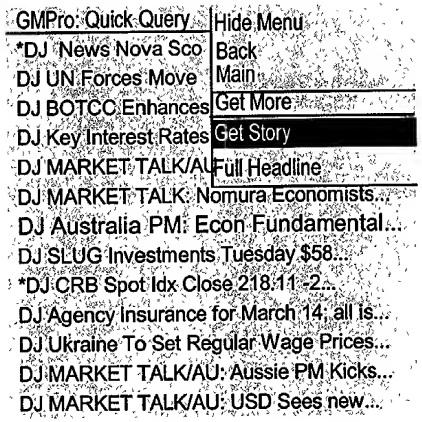
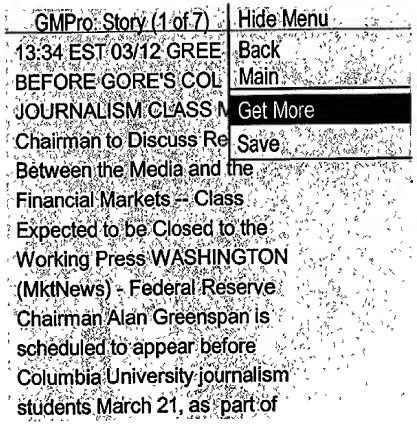
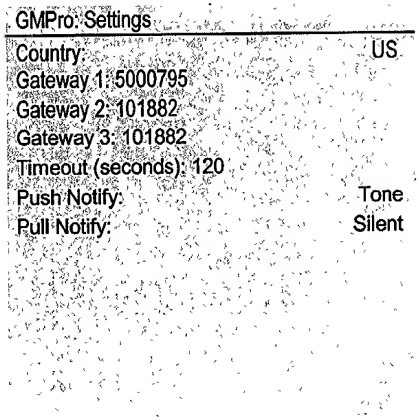



(v)




(w)




(x)

**Fig. 10d**

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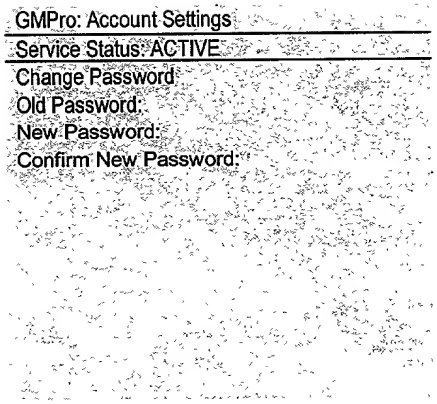



(y)

**Fig. 10e**

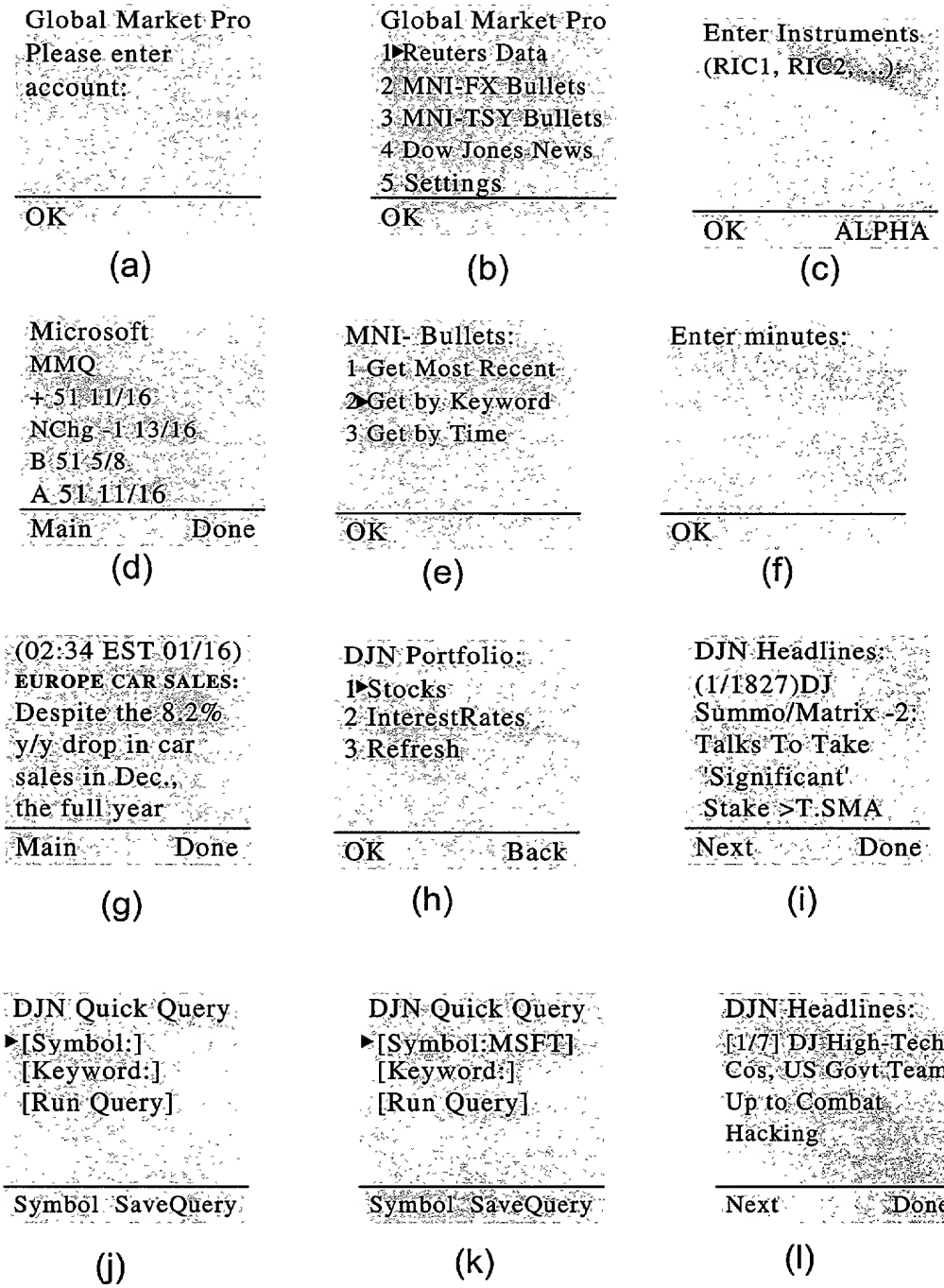
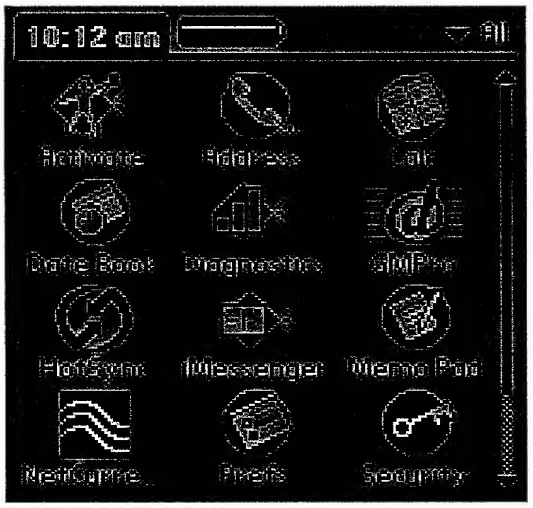
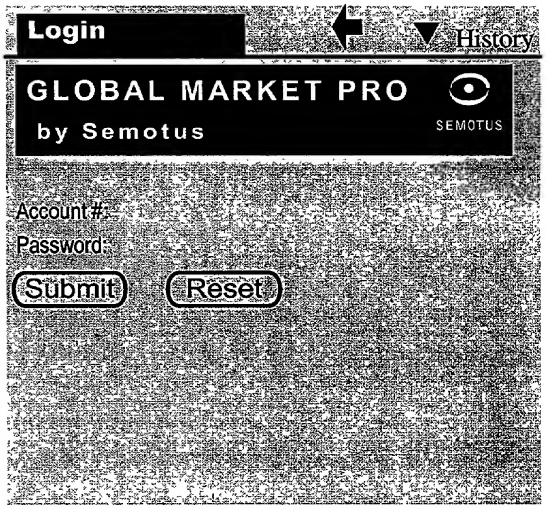

Global Market Pro
Please enter account:
OK
(a)
Global Market Pro
1 Reuters Data
2 MNI-FX Bullets
3 MNI-TSY Bullets
4 Dow Jones News
5 Settings
OK
(b)
Enter Instruments (RIC1, RIC2, ...):
OK
ALPHA
(c)
Microsoft
MMQ
+ 51 11/16
NChg -1 13/16
B 51 5/8
A 51 11/16
Main
Done
(d)
MNI- Bullets:
1 Get Most Recent
2 Get by Keyword
3 Get by Time
OK
(e)
Enter minutes:
OK
(f)
(02:34 EST 01/16)
EUROPE CAR SALES:
Despite the 8.2% y/y drop in car sales in Dec., the full year
Main
Done
(g)
DJN Portfolio:
1 Stocks
2 InterestRates
3 Refresh
OK
Back
(h)
DJN Headlines:
(1/1827)DJ Summo/Matrix -2: Talks To Take 'Significant' Stake >T.SMA
Next
Done
(i)
DJN Quick Query
[Symbol:]
[Keyword:]
[Run Query]
Symbol
SaveQuery
(j)
DJN Quick Query
[Symbol:MSFT]
[Keyword:]
[Run Query]
Symbol
SaveQuery
(k)
DJN Headlines:
[1/7] DJ High-Tech Cos, US Govt Team Up to Combat Hacking
Next
Done
(l)

Fig. 11

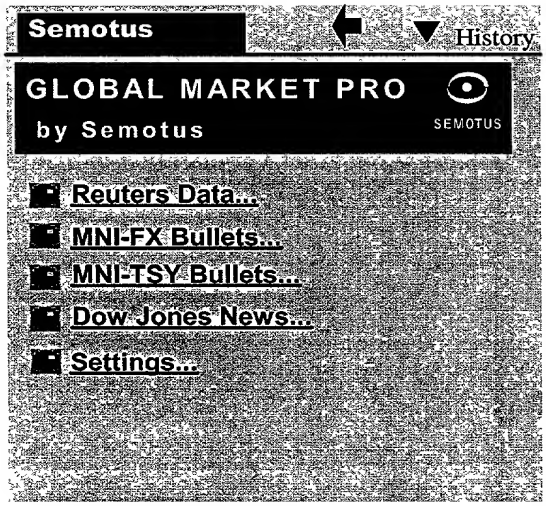
Docket: 1999-0069



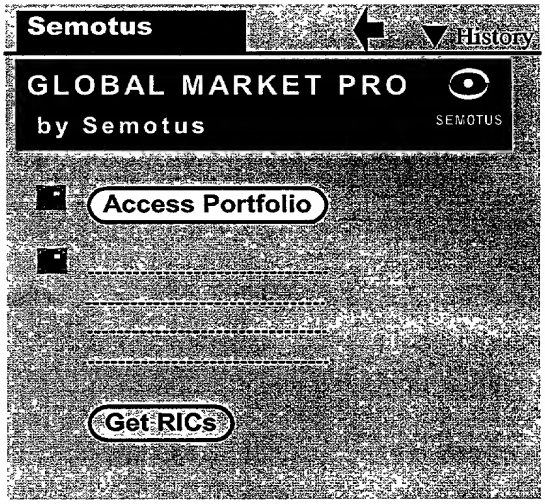

(a)



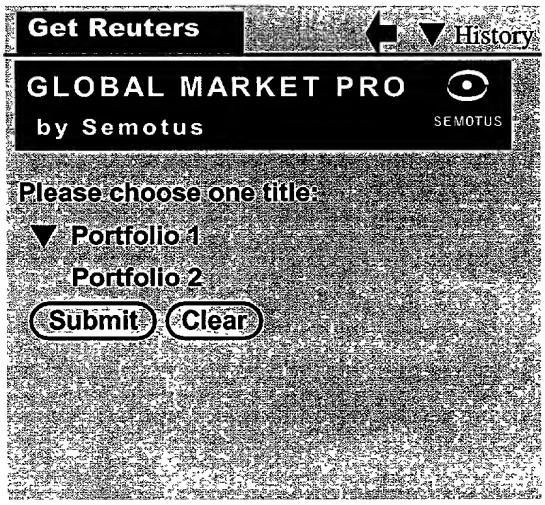

(b)




(c)

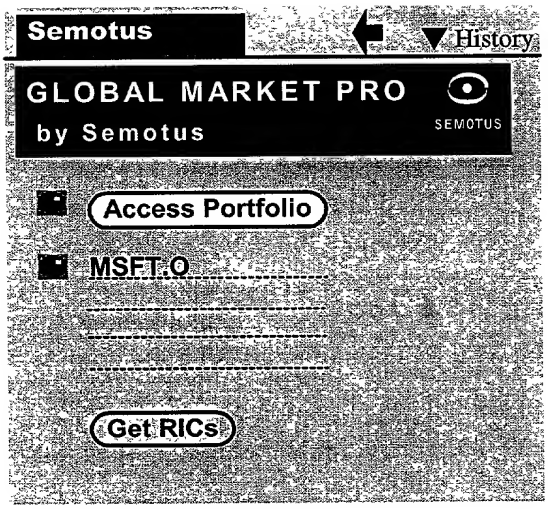



(d)

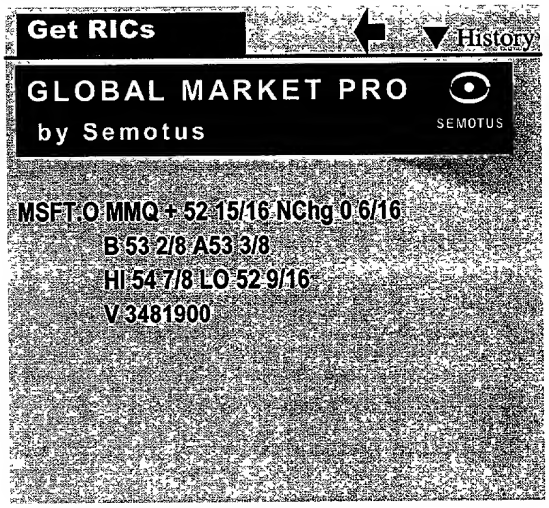



(e)

Fig. 12a



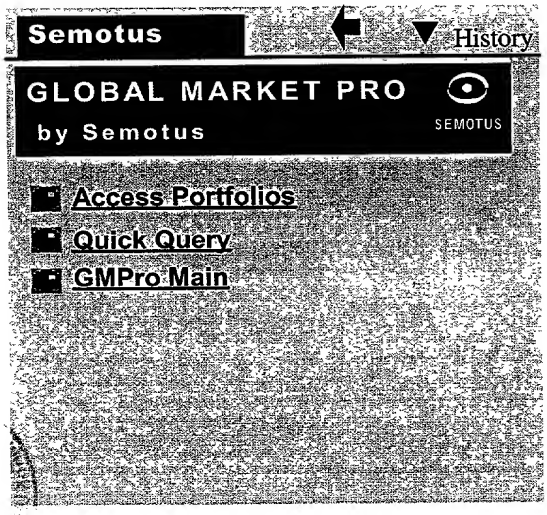

(f)



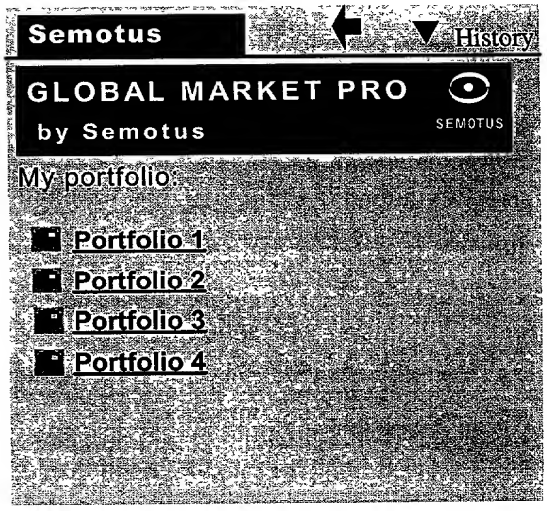

(g)

(h)

(i)

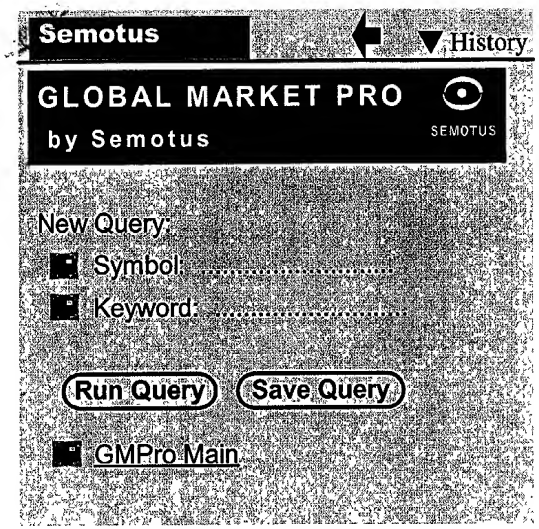



(j)

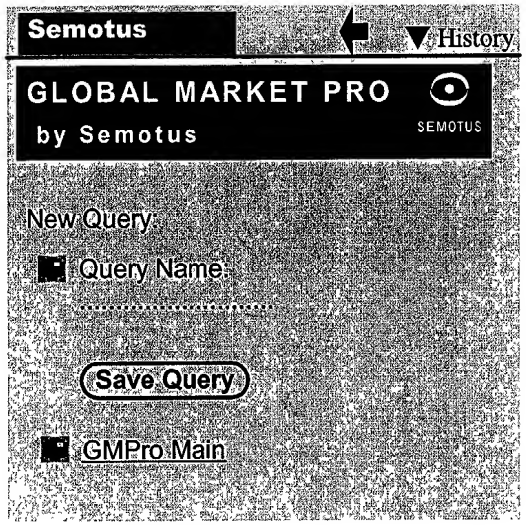



(k)

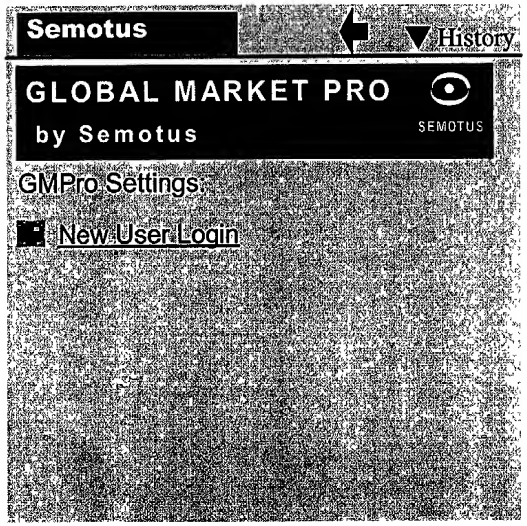
Fig. 12b


Semotus
History
GLOBAL MARKET PRO
by Semotus
SEMOTUS
New Query:
Symbol:
Keyword:
Run Query
Save Query
GMPro Main

(l)


Semotus
History
GLOBAL MARKET PRO
by Semotus
SEMOTUS
New Query:
Query Name:
Save Query
GMPro Main

(m)


Semotus
History
GLOBAL MARKET PRO
by Semotus
SEMOTUS
GMPro Settings:
New User Login

(n)

Fig. 12c

TOSOOF" TEET8860

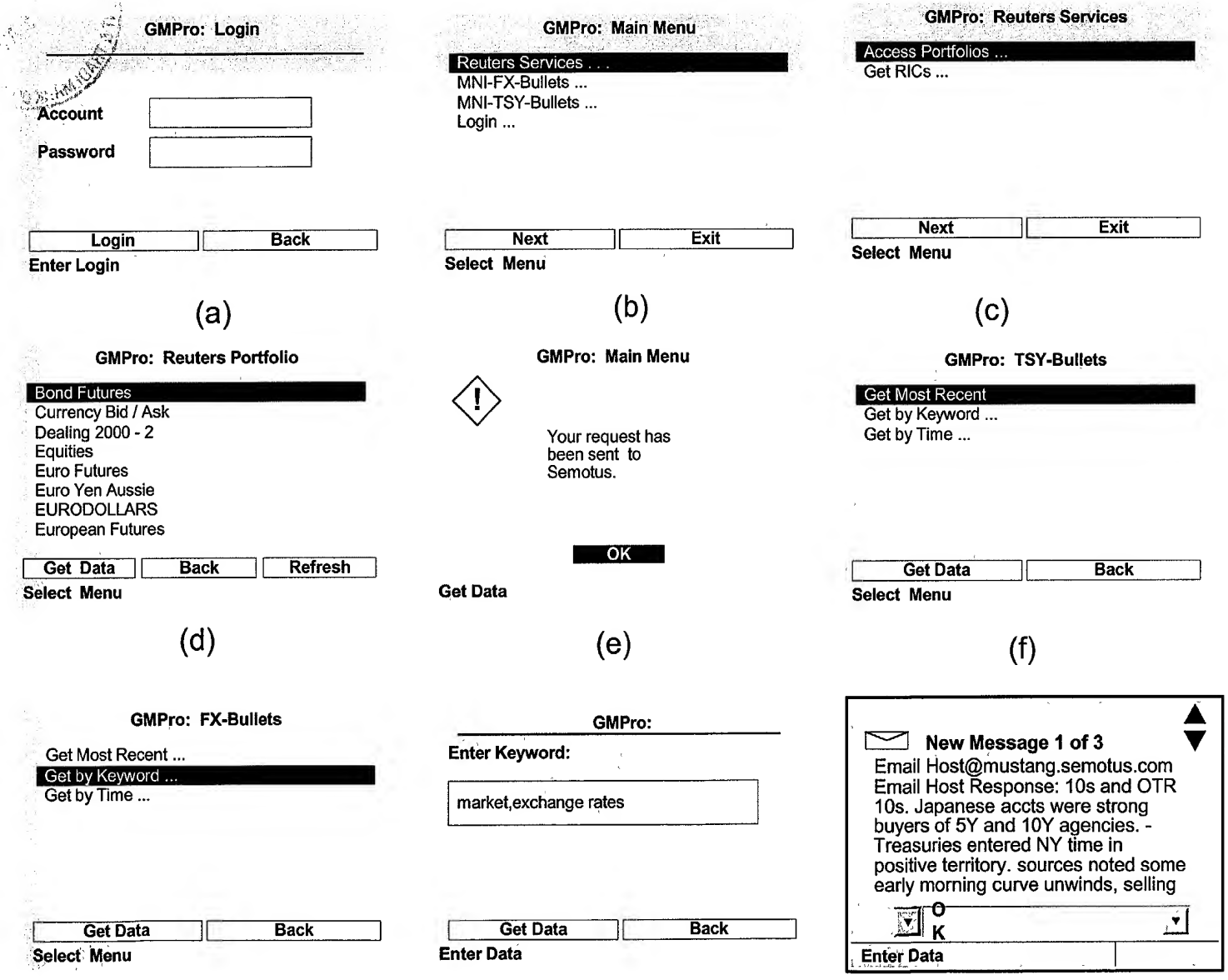



Fig. 13